System recommendations – MONITOR G4

Database server

Operating system

Windows Server 2012 R2[1]
Windows Server 2016[1]
Windows Server 2019[1]

[1] Windows Server 2012 R2 is supported as of version 7.5.5 of MONITOR. Windows Server 2016 is supported as of MONITOR version 8.2. Windows Server 2019 is supported as of MONITOR version 9.0.12.

Processor

Intel Xeon Quad Core or the equivalent AMD processor.

Main memory

Minimum 8 GB. If several applications are run on the same server, more memory is required. Large databases or more companies also require more memory.

Hard drive

Redundant SAS disks. For large installations we recommend separate disk partitions for the operating system and the MONITOR software.

Graphics

XGA 1024x768.

Clients and single users

Operating system

Windows 8.1, 32-bit/64-bit
Windows 10, 32-bit/64-bit[1]

[1] Windows 8.1 is supported as of version 7.5.5 of MONITOR. Windows 10 is supported as of version 8.0.11 of MONITOR.

Processor

Intel Core I5 or the equivalent AMD processor.

Main memory

Minimum 4 GB (Windows 8.1 / Windows 10).

Hard drive

At least 1 GB available prior to installation. 20% of the total volume should always be available.

Graphics

SXGA 1280x1024 or higher resolution, 24-bit color.

Thin clients

You can run MONITOR on “thin clients” (remote desktop). The operating systems that we recommend as application servers for thin clients are Windows Server 2012 R2/2016/2019 64-bit Terminal Services (called “Remote Desktop Services”) and Citrix.

MONITOR’s database server and the application server should be two separate physical or virtual machines.

When dimensioning main memory for the application server you should estimate approximately 200 MB primary memory for each MONITOR session/user.

Integration with other programs

MONITOR has links to for example MS-Office in the form of an export function of lists in Excel format (.xls), a MAPI link for e-mail with Outlook[1] and document viewing of Office documents.

The versions of MS-Office that works best today are MS-Office 2010-2019.

[1] The MAPI link requires you to use Outlook 32-bit. However, this only applies for the integration with CRM and SRM in MONITOR.

Screen

MONITOR is designed to be used with a resolution of at least 1024x768 pixels (XGA). In order for the text in your MONITOR system to be fairly easy to read, you should at least have a screen size of 19 inches. For it to be easy to work in MONITOR, for example to open multiple cascading procedure windows or to see more columns in wide lists, we recommend a screen of 22 inches or more (widescreen).

Printer

We recommend regular laser printers for printing forms, lists and labels in the A4 format from MONITOR. When only printing small quantities it is also possible to use an ink jet printer.

For labels on sheets we recommend labels of the brand “Avery” in any of the supported formats:

L7160 (63,5x38,1 mm) (3x7)

L7161 (63,5x46,6 mm) (3x6)

L7162 (99,1x33,9 mm) (2x8)

L7163 (99,1x38,1 mm) (2x7)

For printing labels on rolls we recommend a thermal transfer or a direct thermal label printer, for example the more simple printer Zebra GK420d. The size for labels on rolls is 76x51 mm which is used for small transport labels (called “Small label” in MONITOR) and 102x51 mm for address labels.

For printouts of transport labels (STE) you need a Zebra label printer or a ZPL II compatible printer of another make (other brands however, have not been teste by us). The printer should have at least 1 MB flash memory and a resolution of 203 dpi. The label (STE) should be 251x107 mm.

The following Zebra label printers have been tested and fulfill our requirements:

ZM400

S4M

ZM400

Z4M Plus

S4M

GX420d

GK420d

Of these label printers we recommend any of the following models ZM400 or S4M, alternatively Z4M Plus if they are available. These models can be placed in a “light” industrial environment and can manage large printout volumes.

However, if there are not very many shipments per day and if you can place the printer in a dust and dirt free environment, you can also use any of the (less expensive) models LP2844-Z, GX420d and GK420d.

The more simple models mentioned above can also be used as label printers for small transport labels and address labels. Such a printer can then also be used as a backup printer for transport labels, if e.g. the regular printer should break.

Network equipment

Most of the regular network equipment that is commonly installed today for PC networks (including network interface cards (NICs), hubs, switches, access points, cables and connections) will operate well with MONITOR.

We recommend a switched TCP/IP network with a band width of 100 Mbit/s for client computers and 1000 Mbit/s for servers. The standards are also called “Fast Ethernet” and “Gigabit Ethernet”.

Client computers and client switches:

Fast Ethernet 100Base-TX (100 Mbit/s)

WLAN 802.11g (54 Mbit/s samt 108 Mbit/s)

WLAN 802.11n (300 Mbit/s)

Please Note! When using wireless network (WLAN 802.11d) of 54 Mbit/s, it is important that the load on each access point is not to large. This might otherwise result in long response times. For work shop terminals that are used for recording (work/attendance) in MONITOR we recommend Fast Ethernet 100Base-TX (100Mbit/s). If you need wireless network to workshop terminals, we recommend a terminal server solution to achieve best response times, maximal capacity and security during recording.

The older WLAN-standard IEEE 802.11b (11 Mbit/s) and also the standard called Ethernet 10Base-T (10 Mbit/s) do not have sufficient band width for MONITOR.

Server and server switches:

Gigabit Ethernet 1000Base-T (1000 Mbit/s).